

Receipt

ATTORNEY DOCKET NO. 8194-364

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: David R. Irvin

Serial No.: 09/464,363

Group Art Unit: 2766

Filed: December 15, 1999

For: METHODS AND APPARATUS FOR SELECTIVE ENCRYPTION
AND DECRYPTION OF POINT TO MULTI-POINT MESSAGES

Date: February 17, 2000

Assistant Commissioner for Patents
Washington, DC 20231

REQUEST FOR CORRECTED FILING RECEIPT

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Sir:

In reviewing the filing receipt (copy attached) for the above referenced application, Applicant notes that the title appears as METHOD AND APPARATUS FOR SELECTIVE ENCRYPTION AND DECRYPTION OF POINT TO MULTI-POINT MESSAGES. The word "Method" should read "Methods" as indicated on the application and transmittal.

Applicant respectfully requests that the title be corrected to read METHODS AND APPARATUS FOR SELECTIVE ENCRYPTION AND DECRYPTION OF POINT TO MULTI-POINT MESSAGES and that a corrected filing receipt be issued.

Respectfully submitted,

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner For Patents, Washington, DC 20231, on February 17, 2000.

Michele P. McMahan

Date of Signature: February 17, 2000

NJB

FILING RECEIPT

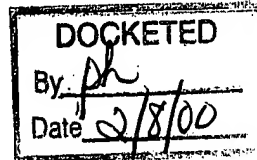


UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT CL	IND CL
09/464,363	12/15/99	2766	\$1,426.00	8194-364	8	44	6

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MYERS BIGEL SIBLEY & SAJOVE
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Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts of Application" ("Missing Parts Notice") in this application, please submit any corrections to this Filing Receipt with your reply to the "Missing Parts Notice." When the PTO processes the reply to the "Missing Parts Notice," the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s) DAVID R. IRVIN, RALEIGH, NC.

IF REQUIRED, FOREIGN FILING LICENSE GRANTED 01/24/00

TITLE

METHOD AND APPARATUS FOR SELECTIVE ENCRYPTION AND DECRYPTION OF POINT
TO MULTI-POINT MESSAGES

PRELIMINARY CLASS: 380

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DATA ENTRY BY: RORIE, DEANNA

TEAM: 03 DATE: 01/29/00

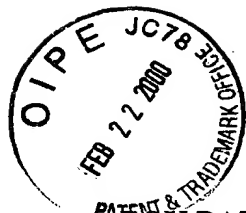


(See reverse for new important information)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.: 8194-364

DATE: December 15, 1999

UTILITY PATENT APPLICATION TRANSMITTAL LETTER
AND FEE TRANSMITTAL FORM (37 CFR 1.53(b))

BOX PATENT APPLICATION

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

Transmitted herewith for filing under 37 CFR 1.53(b) is:

- ☒ a patent application
☐ a Continuation ☐ a Divisional ☐ a Continuation-in-Part (CIP)
 of prior application no.: ; filed
☐ A Small Entity Statement(s) was filed in the prior application; Status still proper and desired.

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Inventor(s) or Application Identifier:

David R. Irvin

 Entitled: **METHODS AND APPARATUS FOR SELECTIVE ENCRYPTION AND DECRYPTION
OF POINT TO MULTIPoint MESSAGES**

Enclosed are:

1. ☒ Application Transmittal Letter and Fee Transmittal Form (*A duplicate is enclosed for fee processing*)
2. ☒ 31 pages of Specification (including 44 claims)
3. ☒ 8 sheets of formal Drawings (35 USC 113)
4. ☒ Oath or Declaration
 - a. ☒ newly executed (*original or copy*)
 - b. ☐ copy from prior application (37 CFR 1.63(d) (*for continuation/divisional*) [Note Box 5 Below]
 - c. ☐ **DELETION OF INVENTOR(S)** (*Signed statement deleting inventor(s) named in the prior application*)
5. ☐ Incorporation By Reference (*useable if box 4b is checked*)
 The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Microfiche Computer Program (*Appendix*)
7. ☒ Assignment papers (*cover sheet(s) and document(s)*)
8. ☐ Small Entity Statement(s)
9. ☐ Information Disclosure Statement, PTO-1449, and references cited
10. ☐ Preliminary Amendment (*Please enter all claim amendments prior to calculating the filing fee.*)
11. ☐ English Translation Document
12. ☐ Certified Copy of Application No. ; Filed



**METHODS AND APPARATUS FOR SELECTIVE ENCRYPTION
AND DECRYPTION OF POINT TO MULTI-POINT MESSAGES**



BACKGROUND OF THE INVENTION

The present invention relates to communications methods and apparatus, and more particularly, to communications methods and apparatus using encryption.

Wireless communications systems are commonly employed to provide
5 voice and data communications to subscribers. For example, analog cellular radiotelephone systems, such as those designated AMPS, ETACS, NMT-450, and NMT-900, have long been deployed successfully throughout the world. Digital cellular radiotelephone systems such as those conforming to the North American standard IS-54 and the European standard GSM have been in service since the
10 early 1990's. More recently, a wide variety of wireless digital services broadly labeled as PCS (Personal Communications Services) have been introduced, including advanced digital cellular systems conforming to standards such as IS-136 and IS-95, lower-power systems such as DECT (Digital Enhanced Cordless Telephone) and data communications services such as CDPD (Cellular Digital
15 Packet Data). These and other systems are described in *The Mobile Communications Handbook*, edited by Gibson and published by CRC Press (1996).

FIG. 1 illustrates a typical terrestrial cellular radiotelephone communication system **20**. The cellular radiotelephone system **20** may include one or more radiotelephones (mobile terminals) **22**, communicating with a plurality of
20 cells **24** served by base stations **26** and a mobile telephone switching office (MTSO) **28**. Although only three cells **24** are shown in **FIG. 1**, a typical cellular network may include hundreds of cells, may include more than one MTSO, and may serve thousands of radiotelephones.

The cells **24** generally serve as nodes in the communication system **20**,
25 from which links are established between radiotelephones **22** and the MTSO **28**, by way of the base stations **26** serving the cells **24**. Each cell **24** typically has allocated to it one or more dedicated control channels and one or more traffic channels. A control channel is a dedicated channel used for transmitting cell



FILE COPY

Bib Data Sheet

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Patent and Trademark Office**Address: COMMISSIONER OF PATENTS AND TRADEMARKS
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SERIAL NUMBER 09/464,363	FILING DATE 12/15/1999 RULE -	CLASS 380	GROUP ART UNIT 2785 2132	ATTORNEY DOCKET NO. 8194-364		
APPLICANTS DAVID R. IRVIN, RALEIGH, NC ;						
** CONTINUING DATA ***** <i>A.M.</i>						
** FOREIGN APPLICATIONS ***** <i>A.M.</i>						
IF REQUIRED, FOREIGN FILING LICENSE <i>A.M.</i> GRANTED ** 01/24/2000						
Foreign Priority claimed 35 USC 119 (a-d) conditions met Verified and Acknowledged		<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance Examiner's Signature <i>A.M.</i> Initials	STATE OR COUNTRY NC	SHEETS DRAWING 8	TOTAL CLAIMS 44	INDEPENDENT CLAIMS 6
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TITLE METHODS AND APPARATUS FOR SELECTIVE ENCRYPTION AND DECRYPTION OF POINT TO MULTI-POINT MESSAGES						
FILING FEE RECEIVED 1426	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit			